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ABSTRACT

A theoretical framework that distinguishes the knowledge, or competence, aspect of language proficiency from the skills aspect is outlined, and the factors in the language testing situation that affect performance on language tests are examined. The model is intended for use in assessing the construct validity of tests of language proficiency and in clarifying some terms and concepts that have been used to describe various aspects of language proficiency. The nature of the performance tasks and language competencies required by some widely used testing procedures are then examined within this framework, and the implications for psychometric theory and language testing research are discussed. (MSE)

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AN EXAMINATION OF SOME LANGUAGE PROFICIENCY TESTS FROM A COMMUNICATIVE VIEWPOINT

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Introduction

The theme of this conference, "Language = Knowledge and Skill," is particularly well-chosen, since it represents, I believe, a recognition that language proficiency involves both knowledge, or competence, and skill in implementing, or executing that competence. Skills and components models such as those proposed by Lado (1961) and Carroll (1961) distinguished skills (listening, speaking, reading, and writing) from components of knowledge (gremmer, vocebulery, phonology/graphology), but did not indicate how these were related. It was not clear whether the skills were simply manifestations of the knowledge components in different modelities and channels, or whether they were qualitatively different in some other ways. For example, does reading differ from writing only in that it involves reception rather than production? If that were so, how can we account for the fact that quite competent and skillful readers ere not always skillful writers? Chomsky's model (1965), with its distinction between competence and performance, permitted us to distinguish random "moise" from language proficiency, but in so doing limited language proficiency solely to competence. And neither of these models recognized the full context of language use -- the contexts of discourse and situation. Halliday's framework (1976), with its focus on functions, both illocutionary and textuel, clearly recognizes the context of discourse, but again is limited to competence. Finally, although Hymes! (1972) notion of sociolinguistic approprietaness recognizes the interaction between language use and the context of situation, it does not address the distinction between competence and skill.

Recent frameworks of communicative competence (Munby, 1978; Widdowson, 1978; Cenale & Swain, 1980; Sevignon, 1983), provide e much more inclusive description of the the knowledge required to use language, in that they incorporate linguistic competence, discourse competence, and sociolinguistic competence. All of these frameworks comprise what might be called descriptive rather than working models in that they focus on competence and either explicitly or implicitly ignore the implementation of that competence in language use. A more cognitive approach to language use has been taken in working models of language processing such as those proposed by Faerch and Kaspar (1983) and Bielystok end Ryen (forthcoming). But while such models distinguish planning from execution and characterize varying degrees of cognitive control in language processing, they do not specify how language competencies are distinguished from language skills.

At this point it may be useful to discuss what evidence there is for a distinction between competence end skill. The first kind of evidance lies in the differential implementation of competence in different skill modes. It is well-known, for exemple, that comprehension generally precades production, both in first end in second language acquisition. If the requisite competencies ere

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present for comprehension, what causes this implementation in production to leg behind? Likewise with differences in chennel. Fluent reading does not necessarily imply fluent listening, or vicewerse. Another kind of evidence can be found in the literature on communication strategies, which deels with the ways in which individuals attempt to achieve some communication goal in a given language despite imadequate communicative competence in that language. In such cases the individual may be able to compensate for inadequate competence by the implementation of various attetgies. Thus, the most skillful communicator may not necessarily be the individual with the greatest competence.

To assure you that I am not serely juggling terms, I will a theoretical framework that distinguishes the knowled, competence aspects of language proficiency from the skills aspend that size addresses the factors in the language testing situs and that size addresses the factors in the language testing situs and that affect performance on language tests. I believe this model is of use in examining the construct validity of tests of language proficiency and in clarifying some terms and concepts that have been used to describe various aspects of language proficiency. I will then examine, within this framework, the nature of the performance tesks and language competencies required by some widely used testing procedures. Finally, I will discuss the implications that this examination suggests for psychosetric theory and for language testing research.

2 A frameworkfpr describing performence on tests of lenguage proficiency

Adrian Palmer and I have proposed a framework for describing the different factors that effect performence on language tests (Bachman and Palmer, forthcoming). This framework includes four types of factors: language trait factors, skill factors, method factors, and random factors. Language trait factors are those competencies or mental abilities that are specific to language use, and are of two main types: organizational competence and pragmatic competence. Organizational competence, which includes grammatical and discourse competence, partains to the formal characteristics of language usage. Pragmatic competence, which includes illocutionary and sociolinguistic competence, partains to the functional and social characteristics of language use.

Skill factors are those general characteristics of the individual that effect test performance. These consist of 1) psychophysiological skills, which are distinguished in terms of mode (productive/receptive) and charmel (surel-oral/visual), 2) forms of representation (conscious/subconscious, analyzed/unemalyzed, prefebricated routines, rules), which determine the extent to which language competencies are available for use, and 3) strategic competence, which consists of a set of general abilities that effect how language competencies are implemented for maximum affectiveness in processing information.



Method fectors are those characteristics of the test method that effect performence. These fectors consist of 1) the type of larguage use situation (reciprocal/nonreciprocal), 2) the amount of context (embedded/reduced), 3) the distribution of information (compact/diffuse), 4) the type of information presented (concrete/abstract), and 5) the type and degree of restrictions on language performance; these include restrictions on the organization of discourse, the language use situation, propositional content, illocutionary force, forms, participants, mode, channel and time/langth. "Communicative" testing methods might be characterized as those involving relatively unrestricted, appropriately contextualized language performance, while "non-losmunicative" testing methods involve only artificially restricted, inappropriately contextualized language performance.

Finally, random factors consist of 1) cognitive and effective characteristics of the individual, such as field dependence/independence, inhibition, tolerance/intelerance of ambiguity, and motivation, 2) interactions among specific combinations of trait, skill and method factors, and 3) measurement ergor.

One application of this framework has been in the definition of terms that have been used to refer to various espects of law ge proficiency (Sechmen and Palmer, 1984). Linguistic competence ..., by defined as consisting of the trait factors of grammatical competences syntax, morphology, and phonology/graphology, while competence consists of linguistic competence plus the trait factors of discourse competence, illocutionary competence, and excialinguistic competence.

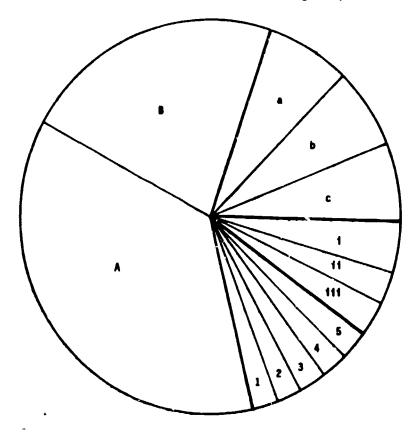
<u>ianuage skills</u> (listening, speaking, reading, writing) consist of trait and skill factors. <u>Linquistic performence</u> consists of the menife, ation of linguistic competence and skill factors in ertificially restricted and inappropriately contextualized test situations (methods). <u>Communicative performence</u> consists of the menifestation of communicative competence and skill factors in relatively unrestricted and appropriately contextualized test situations (methods).

A measure of linquistic performance includes that portion of a test score attributable to linquistic competence, skill feature, artificially restricted and inappropriately contextualized method factors, and random factors. A measure of communicative performance includes that portion of a test score stributable to communicative competence, skill factors, relatively unrestricted and appropriately contextualized method factors, and random factors.

This framework may also by useful in explaining sources of varietion in performance on tests, as illustrated in the Figure below.



- I. Trait Factors:
 - A. Organizational Competence
 - 8. Pregnetic Competence
- II. Skill Factors:
- a. Psychophysiological b. Forms of Representation
- c. Strategic Competence



III. Rethod Factores

- 1. Language Use Situation
- ?, Amount of Contact
- 3. Distribution of Information
- 4. Type of Information
- 5. Restrictions on Longuege Performance

IV. Random Factores

- 1. Cognitive and Affective
- Qualities
 ii. Interactions among
- other Factors iii. Massurement Error

Sources of Variation in Language Test Scores



The relative contribution of treit, skill, method and random factors to test performance will, of course, very from test to test and from individual to individual. For example, Bachman and Palmer (1982) found that a multiple-choice test of grammatical competence loaded much more heavily on the method factor then did multiple-choice tests of either pregnetic or sociolinguistic competence. The effect of the tesk on test performence has generally been dealt with psychometrically as systematic error variance associated with the test method (Campbell & Fiske, 1959). The framework described here specifies in more detail the factors that comprise test method and st the same time recognizes the relationship between the demands met by the task and context of the test and the competencies required to successfully most these demands.

Finally, this framework may be upoful in clarifying some misconceptions regarding the terms "direct" and "indirect" as they have been applied to language tests. The term "direct test" is often used to refer to a test method in which performance resembles "actual" or "normal" language performance, while an "indirect test" is one in which test performence is perceived as somehow different from "actual" or "normal" performence. Thus, writing samples and oral interviews are referred to as "direct" tests, since they presumebly involve the use of the skills being tested. By extension, such tests are often regarded, virtually without question, as construct valid and therefore as lagitimete criteria for the validation of "indirect" tests.

There are two problems with this, however. First, we have no definition of "actual" or "normal" language use that is precise enough for us to determine the extent to which perference on a given test is similar to such language use. Indeed, the framework suggested here may at best permit us only to distinguish relatively "communicative" from relatively "non-communicative" language performance. A more serious problem, however, is that the use of the term "direct" confuses the behavioral manifestation of a trait or competence for the construct itself. As with all mental measures, language tests are indirect indicators of the underlying traits in which we are interested. The framework presented above captures this distinction by recognizing that there are factors in addition to trait factors that effect performance on all language tests, whether these require recognition of the correct elternative in a multiple-choice format or the writing of an eccey.

An exemination of some tests of language proficiency

In exemining proficiency tests as assoures of communicative performance, there are two questions that should us addressed. First, to what extent do the tesks required on the test involve communicative lenguage performence? Second, to what extent does the test assess communicative competencies?

3.1 Multiple-choice tests

The multiple-choice test is one of the the most widely-used techniques for testing language proficiency in the world. Such tests typically include parts aimed at measuring at least some of the



following skills or components: 1) listening comprehension, 2) structure, and 3) reading comprehension. The language performance tasks on such tests are almost always restricted to non-reciprocal situations, in which there is no potential for feed-back or negotiation of meaning. The amount of context generally varies considerably from part to part, as does the distribution and type of information. The formet of these tests generally restrict the mode of performance to reception. Finally, there are obvious restrictions on time and length.

3.1.1 Multiple-choice tests of listening comprehension

Multiple-choice tests of listening comprehension typically include tasks such as 1) listening to a sentence and then identifying the correct paraphrese from several choices, 2) listening to short dialogues and then finding the correct choice to a question about the dielogue, and 3) lietening to a short talk and then answering comprehension questions based on that talk. The propositional content of this type of test is typically restricted to academic topics, while the illncutionary acts are typically ideational and manipulative. In the paraphrese item type two basic tasks are required: comprehending e single enoken centence (stem) and 2) recognizing the correct paraphrese of this sentence (key) from among four written sentences. The majority of the items of this type require only grammatical competence for successful completion. Most depend primarily on the knowledge of lexical signification, or of the propositional content supressed by syntactic structure. Furthermore, these items can be regarded as context-reduced, in that they are generally unconnected with each other and their references ere to fistitious pareons, objects, place and actions. In general, the task of recognizing perephreses is an extremely artificial one and requires virtually no communicative performance, in that this task focuses enclusively on proportitional cignification. In addition, the lack of contest renders this item type highly artificial.

In the lecture, or short talk test type there is generally a variety of discourse organization, including generalization and development, se well as a variety of illocutionary acts and linguistic forms. The basic teeks in this test type ere 1) comprehending a applien discourse and 2) answering direct information questions based on that discourse. In this type of test, the extent of the discourse is such more substantial than that in the paraphrase type. The context is elso much more extensive. Unfortunately, however, the lactures are frequently highly artificial, in that they sound like "read" presentations and feil to include the kinds of heeltations and restatements that characterize oral discourse. There is little challenge to the test taker to interact with the text and commenced little expertunity for authentic language use.

3.1.2 Multiple-chaics tests of structure

The language performance on this type of test is typicerly restricted entirely to single sentences, and thus has little potential for involving discourse. There is generally a variety of propositional contant, while the illecutionery force is typically restricted to the



identional function and the form to declarative sentences. In this test type the basic task is to recognize the syntactic form that will correctly corplete an incomplete etatement. The items in this type of test are generally context-raduced, in that they represent isolated propositions, although there is generally some attempt to contextualize them. Frequently, however, this context is totally irrelevant to the task posed by the item. Consider the following item, for example:

The first ornithischia appeared on the Earth
the early Mesozoic era, some 200
million years ago.

- (A) when
- (B) or
- (C) end
- (D) dusting

This statement, if found in an authentic discourse, would presuppose that the reader is familiar with the terms "ornithischis" and "Masozoic ars". In the test context, however, this information is irrelevant to the syntactic structure that requires the preposition during". If the test taker attempts to process this sentence as an authentic use of language and is not familiar with these terms, the item is context-reduced and may be more difficult than if the mannings of these terms were ignored entirely. Because of the unnecessarily difficult context, items such as these probably engage other competencies even though they are intended only to measure grammatical competence.

3.1.3 Multiple-choice tests of reading comprehension

Of the verious types of multiple-choice test, the reeding comprehension test has, in my opinion, the greatest potential for requiring communicative language performance. This is because it is the lanet restricted with respect to organization of discourse, propositional content, illocutionery force, and forms. There are besically two tasks in this test types 1) comprehending a written text and 2) providing requested information based on the content of that text. The questions are generally of two types: incomplete statements and direct information questions. The type of information requested is usually both literal and informatial. Items in this test type may measure grammatical, cohesive, and illocutionary competence. Strategic competence, to the extent that this is involved in inference and drawing on relevant extra-textual knowledge, can also be measured, should this be desirable.

In general, while multiple-choice tests are highly restricted in terms of the type of performance required. I believe they can be used affectively to measure the receptive skills of listening and reading, and to measure the full range of competencies required in these two skills.



3.3 Ural interviews

The orel interview is probably the premier "direct" test of language proficiency. It is nearly the opposite of the multiple-choice test, in that it can require authentic language use, or communicative performance. While generally limited to the sural/oral channel, both receptive and productive modes can be measured, as can the full range of competencies involved in the skills of lixtening and speaking. The extent to which this test achieves its full potential, however, depends on the elicitation and rating procedures. The skillful interviewer will lead the candidate through a variety of topics, elicit a variety of illocutionary acts, and present a variety of contexts. Indeed, in a well-conducted interview, the candidate may nearly forget that it is a test.

All too frequently, however, the condidate's performance is rated solely in terms of grammer, pronunciation, vocabulary, and perhaps fluency. Such a rating scale fails to evaluate espects of either discourse competence, such as cohesion and shatorical (or nversational) organization, or of exciolinguistic competence, such as appropriateness of register and naturalness.

Another common characteristic of rating scales that have been developed for oral interviews is the definition of the scale points, or levels, in terms of specific contexts and subject matter. A wellknown example of this type of scale definition is that of the Interegency Language Roundtable (ILR) arel interview (foreerly the Foreign Service Institute (FSI) oral interview). This scale has been adopted and expanded by such diverse organizations as the American Council of Teachers of Foreign Languages (ACTFL), in its "Provisional Proficiency Guidelines and the Australian Department of Immigration and Ethnic Affiers, in its "Australian Second Language Proficiency Ratings (ASLPR)". This type of scale definition may be quite useful for apecific mituations such as those of the agencies of the U. S. government, or of modern language departments in U. S. colleges and universities, or of a large-scale migrant program in Australia. Because of the effect of context on communicative language use, however, context dependent definitions limit not only the use of such scales, but more importantly, their interpretation, to the specific eituations for which they are designed. Thus, ratings on these different ecales arm of little use for comperative purposes. How comparable, for example, are the following scale definitions?

Can handle with confidence but not with facility most social situations including introductions and casual conversations about current events, as well as work, family, and autobiographical information; can handle limited work requirements, resuling help in handling any complications or difficulties.

(Loue, 1990:1-5)





Can narrete, describe, end explain in past, present, and future time. Can communicate facts-what, who, when, where, how much--and can explain points of view in an uncomplicated feshion, but cennot conjecture or coherently support en opinion. Cen telk in a general way about topics of current public interest (e.g., current events, etudent rules end regulations), se well es personal interest (work, leisure time activities) end can give autobiographical information. Cen make factual comparisons, such as college life vs. high school life. . . Cen make a point forcefully and communicate needs and thoughts in e situation with a complication (e.g. calling a mechanic for help with a stalled car, explaining suspicious-looking possessions to a customs official).

(ACTFL, 1982:

Has restricted register flexibility though, where a specialist register has been experienced, will have acquired some features of it. . . . Can give detailed information about own family, living conditions, educational background; can describe and converse on everyday things in his environment (e.g., his suburb, the weather); . . . can communicate on the spot with fellow workers or immediate superior (e.g., ask questions about job, make complaints about, work conditions, time off, atc.),

(Ingges and Wylie, 1981:14)

The first quotation in from the definition of level two on the ILR rating scale; the second is from the ACTFL "Provisional Proficiency Guidelines" definition of the "edvenced" level, which is considered comparable to level two on the ILR scale, and the third is from the ASLPR definition of level two. While the ILR etatement is quite general, the ACTFL and ASLPR etatements are much more specific. The problem this creetes for compessibility of retings is that one is not certain that interviewers using the different scales would try to elicit exactly the same language functions (marrating, describing, explaining, explaining, conjecturing, supporting an opinion, making fectual comperisons, communicating meeds and thoughts). Nor is it likely that the same content / reus (work, laisure time ectivities, student rules and regulations, college and high school life) or social registers will be of relevance to American college students, employees of U. S. government agencies, and immigrants to Australia. If there is this such petantial for difference in elicitation and interpretation of ratings from scales such as these, which ere very closely related in terms of their development, comparability of interpretation is even less ettainable when quite different types of scales are emesired.



A more generalizable and interpretable approach to scale definition, I believe, is to define levels on separate scales in terms of the cherecteristics of the verious components of communicative competence. In the <u>Orel Interview Test of Communicative Proficiency in English</u> (Bachman and Palmer, 1983), for example, level two is defined in terms of several components, such as:

Greener

Limited range of both morphologic end syntactic structures, but with some evidence of systematic rules; control of some structures used, but with many error types

Cohesion (part of discourse competence)

Moderate cohesion, including coordination and simple subordination; sometimes confusing relationships among ideas

Sensitivity to Register (part of socialinguistic competence)

Evidence of two registers and control of either formal or informal register

(Bechman and Palmer, 1983:2-4)

Interviewers are instructed to elicit topics, illocationary acts, and sociolinguistic registers appropriats to the context and to the candidate's needs and interests. Thus these factore do have an important effect on the communicative performance elicited in the interview. But since the scale definitions are independent of context and subject matter, the interviewer is not constrained to elicit a particular set of discrete grammatical structures, vocabulary items, or speech acts. This is not to claim, however, that defining such scales is not problematical. On the contrary, the identification and ranking of illocationary acts in terms of appropriateness and level, for example, is extremely complex. Nevertheless, I believe that this approach to scale definition has a great deal of potential for previding a "common yerdstick" for rating any given speech sample in tasses of the components of communicative language proficiency.

3.3 Close toote

The close centinues to be an enigms. While it appears to approximate quite closely the kind of processing involved in reading, and thus to involve communicative performence, it nevertheless is generally perceived by test takers as a highly extificial task. Indeed, such of the research with variations in this procedure has been motivated, in part at least, by the desire to overcome its lack of appearance of validity. I believe that this perceived artificiality is largely a function of the random deletion procedure, which frequently results in items that are nearly impossible to complete. Perhaps time and conditioning will be the ultimate solution to this problem. After all, even the multiple-chains test, which is

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now widely accepted by test takers as the prototypical test, was once perceived as totally lacking in "face validity".

From my own research with the close I em convinced that it can measure the full range of competencies involved in reading. The key to this potential, however, lies in the specific words that are deleted, and to assure that the specific competencies one wishes to measure are in fact measured, it is essential to abandon the random delation procedure for a rational one in which the test developer salects the words to be deleted according to criteria defined in the content specifications of the test.

4 Implications for measurement theory

Given the range of language performance required and the competencies sessured by lenguage proficiency tests, it would seem useful to consider the extent to which such tests can be adequately analyzed by current psychometric theory. One assusption of test theory, both classical true-score and latent-trait models, is that test items are locally independent (Reach, 1960; Lord and Novick, 1988). This means that the probability of an individual's answering an ites correct is a function only of his or her ability level and the difficulty level of that single item. For this assumption to be satisfied, test developers must write and arrange items so that they ere se independent of each other as possible in terms of the tasks required and content included. This is clearly at odds with communicative lenguage performance, in which the "iteme" of discourse ere by definition related to each other end to a given context. (It should be noted that Holland (1981) has suggested a lace restrictive assumption, that of "local normagetive dependence", that may provide a practical means for determining whether item response models fit a given set of item deta.)

A second assumption of currently swallable letent-trait models in that the test items comprise a unidimensional scale, that is, that they all measure a single trait or ability (Lord and Movick, 1968; Lord, 1980). This assumption would also appear untenable, not only in terms of current theories of language proficiency, but also in light of recent research in language testing, which indicates that language proficiency is sultidimensional (e.g., Swinten and Powers, 1980; Bechaen and Polmer, 1981, 1982; Dunber, 1982; Carroll, 1983; Upshur and Hosburg, 1983). As with the assumption of local independence, attempts by test developers to astisfy the assumption of unidimensionality say well result in items that are artificially restricted in their form and content. In fact, the quintessential "discrete-point" item might be regarded as unidimensional.

If current theoretical frameworks and research describe communicative language proficiency as comprising several distinct but related traits, and communicative language performance as occurring in the context of discourse, with interrelated illocutionery acts expressed in a variety of forms, it would seem that language tests would provide both a challenge and an apportunity for psychometricians to test the assumptions of current models and to develop more powerful models if necessary.



5 Implications for test development

There would appear to exist a similar challenge and opportunity for test developers to find more creative test procedures and formats. One such procedure, a variation of the dictation called the "copytest" (Criko & Lin, 1984), involves the visual presentation of material, and has considerable potential as measure of text processing. It is not unreasonable to expect that advances in microcomputer technology, sings eith its increasing evaluability, will provide the means for making this testing technique feasible for large-erals 'nating in the last few years.

Within the multiple-choice fremework, I believe it would be useful to experiment further with items in which some of the distractors are partially correct. For example, the key response would be completely correct in terms of syntch, cohesion, coherence, and perhaps register, while the distractors might be syntactically current, but not cohesive, syntactically and cohesively correct, but not in the appropriate register, and so forth. From items such as these it might be possible to derive accres for these different espects of communicative compatence. This type of item has been examined by Fashedy (1980).

6 Conclusion

In this paper I have presented a framework for examining performance on language tests and have attempted to descripte how this framework might provide some insight into the types of language performance elicited and the language componenties assessed by much tests. At this point I would like to venture some opinions regarding the extent to which language tests can or must comprise measures of communicative competence. First, I believe that it is possible for tests that so not involve communicative performance to assesse some aspects of communicative competence. Second, it is quite somethat that not all the traits of communicative competence are equally relevant to the language use needs of a given group. The ability to use language to perform imaginative functions, for example, is probably of less importance to college students, unfortunately, then the ability to perform identical functions such as devining, describing or arguing. Finally, it may well be that not all the relevant abilities of communicative competence are measurable within the limitations of any given testing program.

A genuine consistent on the part of language testing researchers and language test developers to content and construct validity requires the constant re-examination of the objectives of our tests and a reseasement of the techniques we employ for eliciting communicative language performance. The immunications that result from this re-examination will have implications for both test development and test theory, in that they will require creative applications of current models and technology, and may stimulate the coestion of new models and new technology.



I risagree with those who feel that the most pressing need is for further development of theoretical models. I besieve that current models are sufficiently well-defined to permit empirical verification. I see diseases with those who disparage ever being able to characterize all the components of communicative competence, for such a position would lead us to cease empirical research. The highest priority, I believe, is for us to attempt to move to the paradigmentic stage of scientific development and begin empirical verification of a current theoretical model of communicative lenguage proficiency. Furthermore, I believe that the most effective means of such empirical verification is through language testing research.

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